

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/005754

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F01D5/08 F04D29/58 F01D25/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01D F04D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 39 09 606 A (GEN ELECTRIC) 26 October 1989 (1989-10-26) column 1, line 3 -column 2, line 23 column 4, line 25 -column 6, line 6; figures 2,3 ----	1-9, 11
X	US 6 382 903 B1 (AKIN ROBERT CRAIG ET AL) 7 May 2002 (2002-05-07) abstract column 1, line 39 -column 2, line 27 column 5, line 4 -column 5, line 26; claim 2; figure 8 ----	9-11
A	US 5 271 711 A (MCGREEHAN WILLIAM F ET AL) 21 December 1993 (1993-12-21) cited in the application column 3, line 3 -column 3, line 57; figure 1 ----- -/-	1, 4, 6, 7, 9, 11

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

5 August 2004

Date of mailing of the international search report

24/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rau, G

BEST AVAILABLE COPY
INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/005754

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 267 553 B1 (BURGE JOSEPH C) 31 July 2001 (2001-07-31) column 10, line 3 -column 13, line 26; figures 8,10,12	1-7,9,11
A	DE 44 11 616 A (ABB MANAGEMENT AG) 5 October 1995 (1995-10-05) cited in the application column 1, line 44 -column 2, line 4; figures 1,3	1,4,7,9
A	GB 2 112 461 A (ROLLS ROYCE) 20 July 1983 (1983-07-20) abstract; figures 2,3	3

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/005754

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3909606	A	26-10-1989	US 4893984 A	16-01-1990
			DE 3909606 A1	26-10-1989
			FR 2629868 A1	13-10-1989
			GB 2217785 A ,B	01-11-1989
			IT 1229146 B	22-07-1991
			JP 1315625 A	20-12-1989
			JP 2798697 B2	17-09-1998
US 6382903	B1	07-05-2002	EP 1033476 A2	06-09-2000
			JP 2000314325 A	14-11-2000
US 5271711	A	21-12-1993	FR 2690954 A1	12-11-1993
			GB 2266927 A ,B	17-11-1993
US 6267553	B1	31-07-2001	NONE	
DE 4411616	A	05-10-1995	DE 4411616 A1	05-10-1995
			JP 7279605 A	27-10-1995
			US 5525032 A	11-06-1996
GB 2112461	A	20-07-1983	NONE	